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Notice of Allowability	Application No.	Applicant(s)	
	09/899,632	BOLASH ET AL.	
	Examiner	Art Unit	
	Gordon J. Stock	2877	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/3/05.
2. ☒ The allowed claim(s) is/are 1-25.
3. ☒ The drawings filed on 05 July 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input checked="" type="checkbox"/> Other <u>PTOL-413B</u> . |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Stephen Boughner on February 28, 2005. Please refer to attached PTOL-413B for explanation of amendment to **claims 22 and 23**.

The amended claims are as follows:

22. (Currently amended) A media detection method, comprising:
measuring at least a first and second light intensities radiating off of a media;
determining if one of the first and second light intensities does not fall within a linear region of a characteristic curve of a light sensor; and
determining a media type of the media based on a signal ratio of at least the first and second light intensities if it is determined that at least both of the first and second light intensities falls within the linear region of the characteristic curve of a light sensor, otherwise determining a media type of the media by extrapolating one of the first or second light intensities, which does not within the linear region of the characteristic curve of a light sensor, by projecting the one of the first or second light intensities onto a linear curve and then determining the media type based on a signal ratio of the one of the first or second light intensities that was not projected and the projected one of the first or second light intensities.

~~The media type detection method of claim 22, wherein the projection of the one of the first or second light intensities includes increasing a duty cycle of a PWM signal controlling an intensity of a light source from D0 to an amount D1 where a detected increased light intensity corresponding to the one of the first or second light intensities falls within the linear region of the characteristic curve, and multiplying the increased one of the first or second light intensities by a ratio of D0 and D1.~~

23. (Currently amended) The media type detection method of claim 22, wherein the projection of the one of the first or second light intensities includes increasing a duty cycle of a PWM signal controlling an intensity of a light source from D0 to an amount D1 where a detected increased light intensity corresponding to the one of the first or second light intensities falls within the linear region of the characteristic curve, and multiplying the increased one of the first or second light intensities by a ratio of D0 and D1.

Allowable Subject Matter

2. **Claims 1-25** are allowed.

3. The following is an examiner's statement of reasons for allowance:

As to **claim 1**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a media manipulation apparatus the first light sensor having a higher light flux capability compared to the specular light sensor, in combination with the rest of the limitations of **claims 1-5**.

As to **claim 6**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a media sensing apparatus the first light sensor having a higher light flux

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capability compared to the specular light sensor, in combination with the rest of the limitations of **claims 6-10**.

As to **claim 11**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a media sensing apparatus the first light sensor having a higher light flux capability compared to the specular light sensor, in combination with the rest of the limitations of **claims 11-14**.

As to **claim 15**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a media sensing apparatus the first light sensor having a higher light flux capability compared to the specular light sensor, in combination with the rest of the limitations of **claims 15-17**.

As to **claim 18**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a media detection method the first light sensor having a higher light flux capability compared to the specular light sensor, in combination with the rest of the limitations of **claims 18-21**.

As to **claim 22**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a media detection method determining if one of the first and second light intensities does not fall within a linear region of a characteristic curve of a light sensor, in combination with the rest of the limitations of **claims 22-25**.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Response to Arguments

4. Applicant's arguments, see Remarks, filed February 3, 2005, with respect to the rejections and objections of the previous action have been fully considered and are persuasive. Due to the persuasiveness of the arguments and the amendment to the claims, the previous rejection and objections of the claims, specification, and drawings have been withdrawn.

Fax/Telephone Numbers

If the applicant wishes to send a fax dealing with either a proposed amendment or a discussion with a phone interview, then the fax should:

1) Contain either a statement "DRAFT" or "PROPOSED AMENDMENT" on the fax cover sheet; and

2) Should be unsigned by the attorney or agent.

This will ensure that it will not be entered into the case and will be forwarded to the examiner as quickly as possible.

Papers related to the application may be submitted to Group 2800 by Fax transmission. Papers should be faxed to Group 2800 via the PTO Fax machine located in Crystal Plaza 4. The form of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CP4 Fax Machine number is: (703) 872-9306

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gordon J. Stock whose telephone number is (571) 272-2431.

The examiner can normally be reached on Monday-Friday, 10:00 a.m. - 6:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr., can be reached at 571-272-2800 ext 77.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

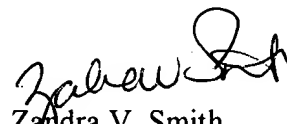
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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private Pair system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



gs

February 28, 2005



Zandra V. Smith
Primary Examiner
Art Unit 2877